



COPY OF PAPERS
ORIGINALLY FILED

CLEAN COPY OF AMENDED CLAIMS

TECHNICAL STAFF 1703

RECEIVED

29. (Twice Amended) Process which comprises: coating

substrates with a polar coating, wherein the coating takes place by means of plasma polymerization; including the step of employing a water-free process gas which contains at least one substituted hydrocarbon compound with up to a maximum of 8 C-atoms and also an inorganic gas, to produce a coating which is stable in the long term; and wherein the coating comprises 2 to 4 gases of the following: CO₂, CH₄, O₂, C₂H₂, NH₃ and Ar.

30. (Amended) Process according to claim 29, wherein the coating is a process gas of CO₂, C₂H₂ and Ar.

32. (Amended) Process according to claim 29, wherein the coating is a process gas of NH₃, CO₂, CH₄ and Ar.

34. (Amended) Process according to claim 29, wherein the coating is a process gas of CO₂ and CH₄.

36. (Amended) Process according to claim 29, wherein the coating is a process gas of CO₂, CH₄ and Ar.

E⁵ 38. (Amended) Process according to claim 29, wherein the coating is a process gas of CO₂ and Ar.

E⁶ 40. (Amended) Process according to claim 29, wherein the coating is a process gas of CH₄, O₂ and Ar.

E⁷ 42. (Amended) Process according to claim 29, wherein the coating is a process gas of CO₂, CH₄, O₂ and Ar.

E⁸ 44. (Amended) Process according to claim 29, wherein the coating is a process gas of CH₄, NH₃ and Ar.

sub H² 46. (Twice Amended) Process which comprises: coating substrates with a polar coating, wherein the coating takes place by means of plasma polymerization; including the step of employing a water-free process gas which contains at least one substituted hydrocarbon compound with up to a maximum of 8 C-atoms and also an inorganic gas, to produce a coating which is stable in the long term; wherein the polar coating has an initial surface tension of < 45 mN/m, which remains unchanged for at least one year.

E¹⁰ 48. (Twice Amended) Process which comprises: coating substrates with a polar coating, wherein the coating takes place

by means of plasma polymerization; including the step of employing a water-free process gas which contains at least one substituted hydrocarbon compound with up to a maximum of 8 C-atoms and also an inorganic gas, to produce a coating which is stable in the long term; and wherein said coating step further comprises coating at least one of packing materials and substrates for adhesion of composite materials.

50. (Twice Amended) Process which comprises: coating substrates with a polar coating, wherein the coating takes place by means of plasma polymerization; including the step of employing a water-free process gas which contains at least one substituted hydrocarbon compound with up to a maximum of 8 C-atoms and also an inorganic gas, to produce a coating which is stable in the long term; and the substrate is at least one of ceramic and metal substrates.